

In the specification:

Page 4, line 15, change "lining" to -- frame --.

Page 5, line 1, change "lining" (both occurrences)
to -- frame --;

line 2, change "lining" to -- frame --;

line 8, change "lining" to -- frame --.

In the amendatory insert to page 7, line 12, please
change the insert as follows -- in accordance with one of the
following angles:

$$\tan \alpha_1 = l/3l + 3i; \quad \tan \alpha_2 = l/2l + 2i; \quad \tan \alpha_3 = l/l + i;$$

$$\tan \alpha_4 = 2l + i/l + i; \quad \tan \alpha_5 = 3l + 2i/l + i;$$

$$\tan \alpha_6 = 2l + i/2l + 2i; \quad \tan \alpha_7 = l + i/3l + 2i;$$

$$\tan \alpha_8 = l + i/2l + i; \quad \tan \alpha_9 = l + i/l;$$

$$\tan \alpha_{10} = 2l + 2i/l; \quad \tan \alpha_{11} = 3l + 3i/l;$$

$$\tan \alpha_{12} = 2l + 2i/2l + i$$

wherein l is a thickness of each of the partitions in a
direction perpendicular to the side of two neighboring ones of
the cells, and i is a length of the side of each of the cells,
 $\alpha_1 - \alpha_{12}$ are angles of inclination of sides of said cells to the
longitudinal sides of said main body. --;

line 14, change "lining" to -- frame --;

line 15, change "lining" to -- frame --;

Page 7, line 20, after "5" insert -- which is formed
as one-piece uninterrupted layer covering all surfaces of the
partitions and all surfaces of the frame --;

line 24, change "lining" to -- frame --.

Page 8, line 4, change "lining" to -- frame --;

line 5, change "lining" to -- frame --.

In the claims:

Cancel claim 25 and 28 without prejudice.

Amend the following claims:

19(amended) A cellular X-ray grid, comprising a main body composed
of photosensitive glass [an X-ray-transmitting material] and having
two opposite surfaces and a peripheral surface, said main body
being provided with a plurality of throughgoing cells extending
through said main body from one of said end surfaces to another
of said end surfaces and separated by a plurality of partitions
each having side surfaces facing a respective one of said cells
and also each having two opposite end surfaces; and an X-ray
absorbing layer which completely covers all surfaces of each of
said partitions so as to cover both said side surfaces and said

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end surfaces of each of said partitions.

Claim 20, line 2, change "lining" to -- frame --;

line 3, change "lining" to -- frame --.

Claim 21, line 4, change "lining" to -- frame --.

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24. (amended) A cellular X-ray grid as defined in claim 19, wherein said main body has two opposite longitudinal sides, [sad] said cells on a view from at least one of said end surfaces having two opposite sides each inclined relative to at least one of said longitudinal sides at at least one of the following Mattsson angles:

$$\tan [tg] \alpha_1 = 1/3l + 3i; \quad \tan [tg] \alpha_2 = 1/2l + 2i;$$

$$\tan [tg] \alpha_3 = 1/l + i;$$

$$\tan [tg] \alpha_4 = 2l + i/l + i; \quad \tan [tg] \alpha_5 = 3l + 2i/l + i;$$

$$\tan [tg] \alpha_6 = 2l + i/2l + 2i; \quad \tan [tg] \alpha_7 = 1 + i/3l + 2i;$$

$$\tan [tg] \alpha_8 = 1 + i/2l + i; \quad \tan [tg] \alpha_9 = 1 + i/l;$$

$$\tan [tg] \alpha_{10} = 2l + 2i/l; \quad \tan [tg] \alpha_{11} = 3l + 3i/l;$$

$$\tan [tg] \alpha_{12} = 2l + 2i/2l + i$$

wherein l is a thickness of each of said partitions in a direction perpendicular to said side of two neighboring ones of said cells, and i is a length of said side of each of said cells; $\alpha_1 - \alpha_{12}$ are angles of inclination of sides of said cells

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to the longitudinal sides of said main body; and means for moving said main body in a predetermined direction, said at least one longitudinal side of said main body extending parallel to said direction so that said opposite sides of said cells are inclined to said direction of movement at one of the Mattsson angles.

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26. (amended) A cellular X-ray grid, comprising a main body having two opposite surfaces and a peripheral surface and provided with a plurality of throughgoing cells extending through said main body from one of said end surfaces to another of said end surfaces and separated by a plurality of partitions each having side surfaces facing a respective one of said cells and also each having two opposite end surfaces, said main body having two opposite longitudinal sides, said cells on a view from at least one of said end surfaces having two opposite sides each inclined relative to at least one of said longitudinal sides of said main body at at least one of the following Mattsson-angles:

$$\tan [tg] \alpha_1 = 1/3l + 3i; \quad \tan [tg] \alpha_2 = 1/2l + 2i;$$

$$\tan [tg] \alpha_3 = 1/l + i;$$

$$\tan [tg] \alpha_4 = 2l + i/l + i; \quad \tan [tg] \alpha_5 = 3l + 2i/l + i;$$

$$\tan [tg] \alpha_6 = 2l + i/2l + 2i; \quad \tan [tg] \alpha_7 = 1 + i/3l + 2i;$$

$$\tan [tg] \alpha_8 = 1 + i/2l + i; \quad \tan [tg] \alpha_9 = 1 + i/l;$$

$$\tan [tg] \alpha_{10} = 2l + 2i/l; \quad \tan [tg] \alpha_{11} = 3l + 3i/l;$$

$$\tan [tg] \alpha_{12} = 2l + 2i/2l + i$$

66 cont.
wherein l is a thickness of each of said partitions in a direction perpendicular to said side of two neighboring ones of said cells, and i is a length of said side of each of said cells; α_1, α_{11} are angles of inclination of sides of said cells to the longitudinal sides of said main body; [and] means for moving said main body in a predetermined direction, said at least one longitudinal side of said main body extending parallel to said direction so that said opposite sides of said cells are inclined to said direction at at least one of the Mattsson angles; and an X-ray absorbing layer which completely covers all surfaces of each of said partitions so as to cover said both said side surfaces and said end surfaces of each of said partitions.